

AUTHOR INDEX TO VOLUME 7

A

Abell, C. W., 251
Ackermann, G. A., 1
Adler, F. L., 269
Adler, L. T., 269
Adler, W. H., 645
Alpert, E., 163
Amare, M., 13

B

Babcock, J. R., 431
Bacon, L. D., 601, 621
Bankhurst, A. D., 187
Bern, M. M., 295
Blazkovec, A. A., 81
Bolton, R. W., 383
Border, J. R., 669
Brooks, G. P., 281

C

Carlquist, J. F., 567
Charoensiri, S., 483
Crowle, A. J., 417

D

Dandeu, J.-P., 393
Darnule, A. T., 323
Darnule, T. V., 323
David, G. S., 337
Dienstag, J. L., 163
Dolen, J. G., 677

E

Engvall, E., 209

F

Floc'h, F., 41
Fox, R. A., 311
Frost, A. F., 251

G

Geoghegan, W. D., 1
Goeken, N. E., 125
Goudswaard, J., 661

H

Hakim, A. A., 25
Hauptman, S. P., 69
Hendricks, R. L., 691

J

Jacobson, S., 417
Jalanko, H., 209
Jollès, P., 41
Jones, K. H., 645

K

Kahan, B. D., 431
Kano, K., 581
Kasukawa, R., 581
Katoh, A. K., 483
Klager, K., 557
Kong, Y.-C. M., 261

Kratzel, R. J., 461

P

L

Labib, R. S., 223
Lambert, R. M., 461
Lawson, A. J., 281
Lee, C.-J., 503
Lefkowitz, S. S., 557
Lester, E. P., 137
Lightbody, J. J., 261
Likhite, V., 323
Littman, B., 163
Loren, A. B., 691
Lux, M., 393

M

Mandl, I., 323
Maral, R., 41
Marcus, S., 567
May, M., 417
Migliore-Samour, D., 41
Milgrom, F., 581
Miller, F. R., 81
Miller, J. B., 137
Mokyr, M. B., 431
Monahan, T. M., 251
Moodie, J. W., 91
Morrison, M. K., 601

N

Nakamura, K., 441
Nakamuro, K., 581
Nanba, K., 441
Nariuchi, H., 441
Noordzij, A., 661
Nowak, J. S., 601, 621

O

O'Flaherty, J. T., 495
Osborne, J. W., 281

Park, B. H., 677
Parmely, M. J., 125
Parshley, M. S., 323
Pellis, N. R., 431
Polson, A., 91
Poskitt, P. K. F., 543
Poskitt, T. R., 543

R

Rajaraman, K., 311
Robbins, J. B., 503
Rocklin, R., 163
Rose, N. R., 601, 621
Ruoslahti, E., 209

S

Sepersky, S., 163
Scillian, J. J., 1
Showell, H. J., 495
Sobczak, G., 69
Stam, J. W. E., 661
Stevens, R. H., 281
Stott, D. I., 519

T

Thompson, J. S., 125
Tomas, T. B., Jr., 223
Turino, G. M., 323

V

van Nieuwmege, R., 635
van Oss, C. J., 669
van Rooijen, N., 635
Vladutiu, A. O., 371
von Wechmar, M. B., 91

W

Ward, P. A., 495
Werner, G. H., 41

Westall, F. C., 57
White, D. W., 281
Wiglesworth, C. M., 337
Williams, J. C., Jr., 187
Witemeyer, S., 187
Wood, G. W., 13

Y

Yachnin, S., 137

Yokoyama, M. M., 691
Yoshida, H., 581
Yoshida, T., 581

Z

Zelenski, K. R., 461

SUBJECT INDEX TO VOLUME 7

A

- A23187, aggregation of polymorphonuclear neutrophils, influence of on, 495-502
- Activation, E-rosettes, mitogen-induced activation of stable E-rosettes by human lymphocytes, 483-494
- Adenocarcinoma
 cell surface, modification of immunological properties of, 25-39
 lymphocyte cytotoxicity in the x-irradiation induced rat small bowel adenocarcinoma, 281-293
 primed lymphocytes, effect of on a rat mammary adenocarcinoma tumor cell line, 337-352
- Adjuvant activity
 of liposomes, 635-644
 of myobacterial peptidoglycans, chemically modified low molecular weight, 41-55
- AFCP, among glass-adherent peritoneal exudate cells, 441-459
- Aggregation, of polymorphonuclear neutrophils, influence of calcium, magnesium, lanthanum, and A23187 on, 495-502
- Allergens, proteins from *Ascaris suum* extract, purification and characterization of proteins antigenically different but bearing common allergenic epitopes, 393-415
- Allografts, decay of memory of cell mediated cytotoxicity after primary sensitization *in vivo* against a tumor allograft, 645-659
- Allotype suppression, abrogation of waning suppression by normal immunoglobulin of the suppressed allotype, 269-280
- Alpha-fetoprotein (AFP)
 immunochemical properties of and antibodies to autologous AFP, 209-222
 immunosuppressive activity of, 125-136, 137-161, 163-185, 223-237
 a population of human cord blood mononuclear cells with surface AFP, 187-208
- Amniotic fluid, alpha-fetoprotein, immunosuppressive factors in, 223-237
- Animal studies. *See under* individual animals
- Antibodies
 antibody forming cell precursors among glass, adherent peritoneal exudate cells, 441-459
 to autologous alpha-fetoprotein, 209-222
 cyclic appearance of in response to a chemically defined polyglycerophosphate antigen, 383-392
 immunosuppression of in SJL mice, resistance to, 417-429
- Antibody cycling, in response to polyglycerophosphate antigen, 383-392
- Antigen-antibody complexes,

- detection using L1210
radioimmune assay, 543-555
- Antigens
antiserum to surface antigens
as a marker for cultured
rat lung endothelial
cells, 323-335
IgA, a major antigen in pigeon
breeder's disease, 661-668
preparative immunoabsorption
electrophoresis, 91-102
tumor antigens, progression of
the immune response to,
431-440
- Anti-immunoglobulins, detection
of human B lymphocytes by
both light and electron
microscopy utilizing
colloidal gold labeled
anti-immunoglobulin, 1-12
- Anti-kappa/lambda immunobead,
for detection of human B
lymphocytes, 691-699
- Antisera
reactions of rabbit antisera
to human β_2 -microglobulin
with platelets, 581-589
to surface antigens as a
marker for cultured rat
lung endothelial cells,
323-335
- Ascaris suum*, proteins from,
purification and charac-
terization of proteins
antigenically different
but bearing common aller-
genic epitopes, 393-415
- Autoimmune disease, encephalito-
genicity, high dose in-
hibition of tryptophan
induced in guinea pigs,
57-67
- B
- Bead assay, anti-kappa/lambda
immunobead for detection
of human B lymphocytes,
691-699
- Blood groups, A, M, N, and P₁
blood group substances in
butanol extracts of human
erythrocytes, 461-470
- B-lymphocytes
anti-kappa/lambda immunobead
for detection of in humans,
691-699
detection of by both light and
electron microscopy uti-
lizing colloidal gold
labeled anti-immunoglobulin,
1-12
rosettes in, micro-method for
enumerating with mouse red
blood cells, 677-689
- C
- Calcium, aggregation of poly-
morphonuclear neutrophils,
influence of on, 495-502
- Cancer studies
adenocarcinoma, modification
of immunological properties
of cell surface, 25-39
alpha-fetoproteins, immuno-
chemical properties of and
antibodies to autologous
AFP, 209-222
lymphocyte cytotoxicity in the
x-irradiation induced rat
small bowel adenocarcinoma,
281-293
primed lymphocytes, effect of
on a rat mammary adenocar-
cinoma tumor cell line,
337-352
- Chicken studies, Fc receptor-
bearing lymphoid cells in
the chicken, 601-619,
621-633
- Cycling, of serum antibodies, in
response to polyglycero-
phosphate antigen, 383-392
- Cytolysis, of tumors, ratio be-
tween effector and target
cells for detection of
serum blocking of, 81-89
- Cytotoxicity
cell-mediated, after primary

sensitization *in vivo*
against a tumor allograft,
decay of, 645-659

lymphocyte cytotoxicity in
the x-irradiation induced
small bowel adenocarcinoma,
281-293

Cytotoxic lymphocytes (CTL),
decay of memory of cell-
mediated cytotoxicity
after primary sensitization
in vivo against a tumor
allograft, 645-659

D

Diabetics, phagocytosis of micro-
organisms by human granu-
locytes *in vitro*, influence
of intermittent hypergly-
cemic glucose levels on,
669-676

E

Effector cells, serum blocking
of tumor lymphocytolysis,
ratio between effector
and target cells for
detection of, 81-89

Electrophoresis, preparative
immunoabsorption electro-
phoresis, 91-102

Encephalitogenicity, tryptophan
peptide induced, high
dose inhibition of, 57-67

E-rosettes

micro-method for enumeration
of with mouse red blood
cells, 677-689

mitogen-induced activation of
stable E-rosettes by human
lymphocytes, 483-494

Erythrocytes, A, M, N, and P₁
blood group substances in
butanol extracts of human
erythrocytes, 461-470

Experimental autoimmune encephalo-
myelitis (EAE),

tryptophan induced encephalo-
genicity in guinea pigs,
high dose inhibition of,
57-67

F

Fc receptors, lymphoid cells
bearing Fc receptors in
the chicken, 601-619,
621-633

Fetoproteins

immunochemical properties of
and antibodies to autolo-
gous AFP, 209-222

immunosuppressive activity of,
125-136, 137-161, 163-185,
223-237

a population of human cord
blood mononuclear cells
with surface AFP, 187-208

G

Globulins, macromolecular insol-
uble cold globulin (MICG)
derived from mouse thymo-
cytes, 69-79

Gold, detection of human B
lymphocytes by both light
and electron microscopy
utilizing colloidal gold
labeled anti-immunoglobulin
1-12

Granulocytes, phagocytosis of
microorganisms by *in vitro*,
effect of intermittent
hyperglycemic glucose
levels on, 669-676

Guinea pig studies

encephalitogenicity, high dose
inhibition of tryptophan
induced in, 57-67

mitogenic factor from chroni-
cally infected animals,
567-579

peptidoglycan fragments, adju-
vant and immunostimulating
activities of chemically

modified low molecular weight compounds, 41-55
 suppressor cells, role of in production of macrophage migration inhibition factor, 311-321
 tumor lymphocytolysis, ratio between effector and target cells for detection of serum blocking of, 81-89

H

Haemophilus influenzae, type b polysaccharide from, characterization and mitogenic activity of, 503-518
 HAFP. See Human alpha-fetoprotein
 Hepatitis B, interferon, action of in chronic hepatitis B viral infections, 371-382
 Hepatitis B antigen, preparative immunoabsorption electrophoresis, 91-102
 HITB-PS, characterization and mitogenic activity of, 503-518
 Human alpha-fetoproteins (HAFP) immunochemical properties of and antibodies to autologous AFP, 209-222
 immunosuppressive activity and microheterogeneity, 137-161, 163-185
 a population of human cord blood mononuclear cells with surface AFP, 187-208
 Human studies
 alpha-fetoproteins, immunosuppressive activity of, 125-136, 137-161, 163-185
 B-cell rosettes, improved micro-method for enumeration of with mouse red blood cells, 677-689
 B lymphocytes, anti-kappa/lambda immunobead for detection of, 691-699
 B lymphocytes, detection by

both light and electron microscopy utilizing colloidal gold labeled anti-immunoglobulin, 1-12
 E-rosettes, mitogen-induced activation of stable E-rosettes by human lymphocytes, 483-494
 erythrocytes, A, M, N, and P₁ blood group substances in butanol extracts of, 461-470
Haemophilus influenzae type b, characterization and mitogenic activity of, 503-518
 IgGfC receptors, expression on human plasma cells, 13-23
 phagocytosis of microorganisms by granulocytes *in vitro*, influence of intermittent hyperglycemic glucose levels on, 669-676
 rabbit antisera, reactions of to human β_2 -microglobulin with platelets, 581-589
 suppressor cells, role of in production of macrophage migration inhibition factor, 311-321
 viral infections, action of interferon in chronic hepatitis B, 371-382
 Hyperglycemia, phagocytosis of microorganisms by human granulocytes *in vitro*, influence of intermittent hyperglycemic glucose levels on, 669-676

I

IgA, major antigen in pigeon breeder's disease, 661-668
 IgGfC receptors, expression on human plasma cells, 13-23
 Immune retention, selective platelet immune retention, 295-310
 Immunoabsorption electrophoresis 91-102

- Immunobead, anti-kappa/lambda immunobead for detection of human B lymphocytes, 691-699
- Immunofluorescence, detection of human B lymphocytes by both light and electron microscopy utilizing colloidal gold labeled anti-immunoglobulin, 1-12
- Immunoglobulin
allotype suppression, abrogation of waning suppression by normal immunoglobulin of the suppressed allotype, 269-280
free thiol groups present on cytoplasmic and membrane associated IgM, biosynthesis and assembly of, 519-541
IgA, a major antigen in pigeon breeder's disease, 661-668
IgGFc receptors, expression on human plasma cells, 13-23
- Immunostimulating activity, of myobacterial peptidoglycans, chemically modified low molecular weight, 41-55
- Immunosuppression, by antibodies, resistance of SJL mice to, 417-429
- Immunosuppressive activity, of fetoproteins, 125-136, 137-161, 163-185, 223-237
- Interferon, chronic hepatitis B viral infections, action of on, 371-382
- Irradiation, adenocarcinoma, lymphocyte cytotoxicity in the x-irradiation induced rat small bowel adenocarcinoma, 281-293
complexes, 543-555
- Lanthanum, aggregation of polymorphonuclear neutrophils, influence of on, 495-502
- Liposomes, adjuvant activity of, 635-644
- Local adoptive transfer assays (LATA), progression of immune response to solubilized tumor antigens, 431-440
- Lymphocytes
activation, cell interaction during, 251-260
alpha-fetoprotein bearing, 187-208
B lymphocytes, anti-kappa/lambda immunobead for detection of in humans, 691-699
cytotoxicity in the x-irradiation induced rat small bowel adenocarcinoma, 281-293
decay of memory of cell-mediated cytotoxicity after primary sensitization *in vivo* against a tumor allograft, 645-659
detection of human B lymphocytes by both light and electron microscopy utilizing colloidal gold labeled anti-immunoglobulin, 1-12
E-rosettes, micro-method for enumeration of with mouse red blood cells, 677-689
E-rosettes, mitogen-induced activation of stable E-rosettes by human lymphocytes, 483-494
HITB-PS, mitogenic activity on human peripheral lymphocytes, 503-518
mitogenic factor from chronically infected guinea pigs, 567-579
mixed lymphocyte reaction, stimulating capacity of mitogen-transformed,
- L1210 system, radioimmune assay for detecting circulating immune

- glutaraldehyde-treated mouse spleen cells in, 261-268
- primed, effect of on a rat mammary adenocarcinoma tumor cell line, 337-352
- sensitization of *in vitro*, effect of Δ^9 -tetrahydrocannabinol on, 557-566
- Lymphocytolysis, of tumors, ratio between effector and target cells for detection of serum blocking of, 81-89
- Lymphoid cells, Fc receptor-bearing, in the chicken, 601-619, 621-633

M

- Magnesium, aggregation of polymorphonuclear neutrophils, influence of on, 495-502

Markers

- antiserum to surface antigens as a marker for cultured rat lung endothelial cells, 323-335
- mouse red blood cells as, in micro-method for enumeration of human B-cell rosettes, 677-689

MICG, 69-79

- β_2 -Microglobulins, human, with platelets reactions of rabbit antisera to, 581-589

- Microheterogeneity, of human alpha-fetoprotein, 137-161

- Microscopy, detection of human B lymphocytes by both light and electron microscopy utilizing colloidal gold labeled anti-immunoglobulin, 1-12

- Migration inhibition factor (MIF), suppressor cells, role of in production of, 311-321

- Mitogenic activity, of polysac-

charide from *Haemophilus influenzae* type b, 503-518

- Mitogenic factor, from chronically infected guinea pigs, 567-579

Mitogens

- E-rosettes, mitogen-induced activation of stable E-rosettes by human lymphocytes, 483-494

- lymphocyte activation, cell interaction during, 251-260

- mixed lymphocyte reaction, stimulating capacity of mitogen-transformed, glutaraldehyde-treated mouse spleen cells in, 261-268

- Mixed lymphocyte reaction, stimulating capacity of mitogen-transformed, glutaraldehyde-treated mouse spleen cells, 261-268

Mouse studies

- adenocarcinoma, modification of immunological properties of cell surface, 25-39

- alpha-fetoprotein, immunosuppressive factors in mouse amniotic fluid and neonate serum, 223-237

- antibody forming cell precursors among glass-adherent peritoneal exudate cells, 441-459

- cell surface, modification of immunological properties of, 25-39

- immunosuppression by antibodies, resistance of SJL mice to, 417-429

- macromolecular insoluble cold globulin (MICG) derived from thymocytes, 69-79

- memory of cell-mediated cytotoxicity after primary sensitization *in vivo* against a tumor allograft, decay of, 645-659

- mixed lymphocyte reaction, stimulating capacity of

- mitogen-transformed
glutaraldehyde-treated
spleen cells in, 261-268
 - proteins from *Ascaris suum*
extract, purification and
characterization of pro-
teins antigenically dif-
ferent but bearing com-
mon allergenic epitopes,
393-415
 - Δ^9 -tetrahydrocannabinol, effect
of on *in vitro* sensitiza-
tion of mouse splenic
lymphocytes, 557-566
 - thiol groups (free) present on
cytoplasmic and membrane
associated IgM, biosyn-
thesis and assembly of,
519-541
 - Mycobacterium tuberculosis*,
peptidoglycan fragments,
adjuvant and immunostimu-
lating activities of chemi-
cally modified low molecu-
lar weight compounds, 41-55
- N
- Neutrophils, aggregation of
polymorphonuclear neutro-
phils, influence of cal-
cium, magnesium, lantha-
num, and A23187 on, 495-502
- P
- Peptidoglycans, myobacterial,
adjuvant and immunostimu-
lating activities of
chemically modified low
molecular weight, 41-44
 - Peritoneal exudate, antibody
forming cell precursors
among glass-adherent
peritoneal exudate cells,
441-459
 - Phagocytosis, of microorganisms
by human granulocytes
in vitro, influence of
intermittent hyperglycemic
glucose levels on, 669-676
 - Pigeon breeder's disease, IgA, a
major antigen in, 661-668
 - Pigeon studies, IgA, a major
antigen in pigeon breeder's
disease, 661-668
 - Plant viruses, preparative immuno-
absorption electrophoresis,
91-102
 - Plaque-forming cells (PFC), cyclic
appearance of in response
to a chemically defined
polyglycerophosphate antigen,
383-392
 - Platelets, selective platelet
immune retention, 295-310
 - Polyglycerophosphate antigens,
cyclic appearance of
serum antibody-producing
cells in response to,
383-392
 - Polymorphonuclear granulocytes,
phagocytosis of microorga-
nisms by *in vitro*, effect
of intermittent hypergly-
cemic glucose levels on,
669-676
 - Polymorphonuclear neutrophils,
aggregation of, influence
of calcium, magnesium,
lanthanum, and A23187 on,
495-502
 - Polysaccharides, *Haemophilus in-
fluenzae* type b, charac-
terization and mitogenic
activity of, 503-518
 - Precursors, antibody forming cell
precursors among glass-
adherent peritoneal exu-
date cells, 441-459
 - Preparative immunoabsorption
electrophoresis, 91-102
 - Proteins
from *Ascaris suum* extract, pur-
ification and characteriza-
tion of proteins antigeni-
cally different but bear-
ing common allergenic
epitopes, 393-415
macromolecular insoluble cold

globulin (MIGG) derived
from mouse thymocytes,
69-79

R

Rabbit studies

allotype suppression, abroga-
tion of waning suppression
by normal immunoglobulin
of the suppressed allo-
type, 269-280

human β_2 -microglobulin with
platelets, reactions of
rabbit antisera to,
581-589

peptidoglycan fragments, ad-
juvant and immunostimu-
lating activities of
chemically modified low
molecular weight compounds,
41-55

serum antibodies, cyclic
appearance of in response
to a chemically defined
polyglycerophosphate anti-
gen, 383-392

Radioimmune assay, L1210 assay
for detecting circulating
immune complexes, 543-555

Rat studies

adenocarcinoma, lymphocyte
cytotoxicity in the x-
irradiation induced rat
small bowel adenocarcinoma,
281-293

alpha-fetoproteins, immunosup-
pressive activity of
125-136

antiserum to surface antigens
as a marker for cultured
rat lung endothelial cells,
323-335

primed lymphocytes, effect of on
a rat mammary adenocarcinoma
tumor cell line, 337-352

selective platelet immune re-
tention, 295-310

Receptors

Fc receptor-bearing lymphoid

cells in the chicken,
601-619, 621-633

IgGfC receptors, expression on
human plasma cells, 13-23

Red blood cells, A, M, N, and P₁
blood group substances in
butanol extracts of human
erythrocytes, 461-470

Rosettes

E-rosettes, micro-method for
enumeration of with mouse
red blood cells, 677-689
mitrogen-induced activation of
stable E-rosettes by human
lymphocytes, 483-494

S

Sensitization

decay of memory of cell-mediated
cytotoxicity after primary
sensitization *in vivo*
against a tumor allograft,
645-659
of lymphocytes, effect Δ^9 -
tetrahydrocannabinol on,
557-566

Serum antibody, cyclic appearance
of in response to a chemi-
cally defined polyglycero-
phosphate antigen, 383-392

Serum blocking, of tumor lympho-
cytolysis, ratio between
effector and target cells
for detection of, 81-89

SJL mice, immunosuppression by
antibodies in, 417-429

Suppressor cells

allotype suppression, abroga-
tion of waning suppression
by normal immunoglobulin
of the suppressed allotype,
269-280

induction of by human alpha-
fetoprotein, 163-185

macrophage migration inhibition
factor, role of in produc-
tion of, 311-321

T

Target cells

primed lymphocytes, effect of
on a rat mammary adenocar-
cinoma tumor cell line,
337-352

serum blocking of tumor lympho-
cytolysis, ratio between
effector and target cells
for detection of, 81-89

Δ^9 -Tetrahydrocannabinol (Δ^9 -
THC), *in vitro* sensitiza-
tion of mouse splenic
lymphocytes, effect of
on, 557-566

Thiol groups, on cytoplasmic
and membrane associated
IgM, biosynthesis and
assembly of, 519-541

Thymocytes, macromolecular in-
soluble cold globulin
(MICG) derived from thymo-
cytes, 69-79

Tryptophan, encephalitogenicity,
high dose inhibition of
induced in guinea pigs,
57-67

Tumors

allograft, decay of memory of
cell-mediated cytotoxicity
after primary sensitiza-
tion *in vivo* against,
645-659

alpha-fetoproteins, immuno-
chemical properties of
and antibodies to autolo-
gous AFP, 209-222

antigens in, progression of
immune response to solu-
bilized tumor antigens,
431-440

cell surface, modification of
immunological properties
of, 25-39

free thiol groups present
on cytoplasmic and membrane
associated IgM, biosynthesis
and assembly of, 519-541

lymphocyte cytotoxicity in the
x-irradiation induced rat
small bowel adenocarcinoma,
281-293

lymphocytolysis, ratio between
effector and target cells
for detection of serum
blocking of, 81-89

primed lymphocytes, effect of
on a rat mammary adenocar-
cinoma tumor cell line,
337-352

V

Viral infections, interferon,
action of in chronic
hepatitis B, 371-382

Viruses, preparative immunoabsorp-
tion electrophoresis,
91-102

W

Wild cucumber mosaic virus, pre-
parative immunoabsorption
electrophoresis, 91-102

Worms, proteins from *Ascaris*
suum extract, purification
and characterization of
proteins antigenically
different but bearing
common allergenic epitopes,
393-415

COLLECTIVE CONTENTS TO VOLUME 7

Volume 7, Number 1, 1978

The Detection of Human B Lymphocytes by Both Light and Electron Microscopy Utilizing Colloidal Gold Labeled Anti-Immunoglobulin 1
W. D. Geoghegan, J. J. Scillian, and G. A. Ackerman

Expression of IgGFc Receptors on Human Plasma Cells 13
G. W. Wood and M. Amare

Modification of the Immunologic Properties of the Cell Surface 25
A. A. Hakim

Adjuvant and Immunostimulating Activities (in the Absence of Freund's Incomplete Adjuvant) of Chemically Modified Low Molecular Weight Mycobacterial Peptidoglycans 41
F. Floc'h, D. Migliore-Samour, R. Maral, G. H. Werner, and P. Jollès

High Dose Inhibition of the Tryptophan Peptide Induced Encephalitogenicity 57
F. C. Westall

A New Protein: Macromolecular Insoluble Cold Globulin (MICG) Derived from Mouse Thymocytes 69
S. P. Hauptman and G. Sobczak

The Importance of the Ratio between Effector and Target Cells for Detection of Serum Blocking of Tumor Lymphocytolysis 81
F. R. Miller and A. A. Blazkovec

Preparative Immunoabsorption Electrophoresis 91
A. Polson, M. B. von Wechmar, and J. W. Moodie

Book Reviews 103

Erratum	121
Announcement	123

Volume 7, Number 2, 1978

Special Issue on Alpha-fetoprotein

Immunosuppressive Activity of Isolated Rat and Human Fetoproteins	125
<i>N. E. Goeken, M. J. Parmely, and J. S. Thompson</i>	
Human Alpha-fetoprotein: Immunosuppressive Activity and Microheterogeneity	137
<i>E. F. Lester, J. B. Miller, and S. Yachnin</i>	
Immunosuppressive Characteristics of Human AFP: Effect on Tests of Cell Mediated Immunity and Induction of Human Suppressor Cells	163
<i>E. Alpert, J. L. Dienstag, S. Sepersky, B. Littman, and R. Rocklin</i>	
A Population of Human Cord Blood Mononuclear Cells with Surface Alpha Fetoprotein	187
<i>A. D. Bankhurst, S. Witemeyer, and R. C. Williams, Jr.</i>	
Immunochemical Properties of Alpha-fetoprotein (AFP) and Antibodies to Autologous AFP	209
<i>H. Jalanko, E. Engvall, and E. Ruoslahti</i>	
Immunosuppressive Factors in Mouse Amniotic Fluid and Neonate Serum	223
<i>R. S. Labib and T. B. Tomasi, Jr.</i>	
Book Reviews	239

Volume 7, Number 3, 1978

Cell Interaction during Lymphocyte Activation	251
<i>A. F. Frost, T. M. Monahan, and C. W. Abell</i>	
Factors Affecting the Stimulating Capacity of Mitogen-Transformed, Glutaraldehyde-Treated Mouse Spleen Cells in the Mixed Lymphocyte Reaction	261
<i>J. J. Lightbody and Y.-C. M. Kong</i>	

<i>In vitro</i> Studies on Allotype Suppression. IV. Abrogation of Waning Suppression by Normal Immunoglobulin of the Suppressed Allotype	269
<i>L. T. Adler and F. L. Adler</i>	
Lymphocyte Cytotoxicity in the X-Irradiation Induced Rat Small Bowel Adenocarcinoma. II. Presence of Cytotoxic Lymphocytes in Irradiated Animals	281
<i>R. H. Stevens, G. P. Brooks, J. W. Osborne, D. W. White, and A. J. Lawson</i>	
Selective Platelet Immune Retention	295
<i>M. M. Bern</i>	
The Role of Suppressor Cells in the Production of Macrophage Migration Inhibition Factor	311
<i>R. A. Fox and K. Rajaraman</i>	
Antiserum to Surface Antigens as a Marker for Cultured Rat Lung Endothelial Cells	323
<i>A. T. Darnule, M. S. Parshley, T. V. Darnule, V. Likhite, I. Mandl, and G. M. Turino</i>	
Target Cell—Substratum Interaction. I. Effect of Primed Lymphocytes on a Rat Mammary Adenocarcinoma Tumor Cell Line	337
<i>G. S. David and C. M. Wiglesworth</i>	
Book Reviews	353

Volume 7, Number 4, 1978

Immune Mechanisms and the Action of Interferon in Chronic Hepatitis B Virus Infection.	371
<i>A. O. Vladutiu</i>	
Cyclic Appearance of Antibody-Producing Cells in the Peripheral Blood in Response to a Chemically-Defined Polyglycerophosphate Antigen	383
<i>R. W. Bolton</i>	
Purification and Characterization of Two Proteins from <i>Ascaris suum</i> Extract, Antigenically Different but Bearing Common Allergenic Epitopes	393
<i>J.-P. Dandeu and M. Lux</i>	
Resistance of SJL Mice to Immunosuppression by Antibodies	417
<i>A. J. Crowle, S. Jacobson, and M. May</i>	
Progression of the Immune Response to Solubilized Tumor Antigens	431
<i>N. R. Pellis, M. B. Mokyr, J. R. Babcock, and B. D. Kahan</i>	

Antibody Forming Cell Precursors among Glass-Adherent Peritoneal Exudate Cells	441
<i>K. Nakamura, H. Nariuchi, and K. Nanba</i>	
The A, M, N, and P ₁ Blood Group Substances in Butanol Extracts of Human Erythrocytes	461
<i>R. M. Lambert, R. J. Kratzel, and K. R. Zelenski</i>	
Book Reviews	471
Announcement	481
Volume 7, Number 5, 1978	
Mitogen-Induced Activation of Stable E-Rosettes by Human Lymphocytes	483
<i>A. K. Katoh and S. Charoensiri</i>	
Influence of Calcium, Magnesium, Lanthanum, and A23187 on the Aggregation of Polymorphonuclear Neutrophils	495
<i>J. T. O'Flaherty, H. J. Showell, and P. A. Ward</i>	
Characterization and Mitogenic Activity of <i>Haemophilus influenzae</i> Type B Capular Polysaccharide	503
<i>C.-J. Lee and J. B. Robbins</i>	
Biosynthesis and Assembly of IgM. Free Thiol Groups Present on Cytoplasmic and Membrane Associated IgM	519
<i>D. I. Stott</i>	
The L1210 Radioimmune Assay for Detecting Circulating Immune Complexes	543
<i>T. R. Poskitt and P. K. F. Poskitt</i>	
Effect of Δ^9 -Tetrahydrocannabinol on <i>in vitro</i> Sensitization of Mouse Splenic Lymphocytes	557
<i>S. S. Lefkowitz and K. Klager</i>	
Mitogenic Factor from Chronically Infected Guinea Pigs	567
<i>J. F. Carlquist and S. Marcus</i>	
Reactions of Rabbit Antisera to Human β_2 -Microglobulin (β_2 -M) with Platelets	581
<i>H. Yoshida, R. Kasukawa, T. Yoshida, K. Nakamuro, K. Kano, and F. Milgrom</i>	

COLLECTIVE CONTENTS TO VOLUME 7	731
---------------------------------	-----

Book Reviews	591
--------------------	-----

Volume 7, Number 6, 1978

Fc Receptor-Bearing Lymphoid Cells in the Chicken. I. Characterization of the Fc(IgG) Receptor	601
<i>J. S. Nowak, M. K. Morrison, L. D. Bacon, and N. R. Rose</i>	

Fc Receptor-Bearing Lymphoid Cells in the Chicken. II. Relative Increase of Fc(IgG) Receptor Bearing Cells in Obese Strain Chickens	621
<i>J. S. Nowak, L. D. Bacon, and N. R. Rose</i>	

Liposomes in Immunology: Further Evidence for the Adjuvant Activity of Liposomes	635
<i>N. van Rooijen and R. van Nieuwmegen</i>	

The Decay of Memory of Cell-Mediated Cytotoxicity after Primary Sensitization <i>in Vivo</i> against a Tumor Allograft	645
<i>K. H. Jones and W. H. Adler</i>	

Pigeon IgA: A Major Antigen in Pigeon Breeder's Disease	661
<i>J. Goudswaard, A. Noordzij, and J. W. E. Stam</i>	

Influence of Intermittent Hyperglycemic Glucose Levels on the Phagocytosis of Microorganisms by Human Granulocytes <i>in Vitro</i>	669
<i>C. J. van Oss and J. R. Border</i>	

An Improved Micro-Method for Enumeration of Human B-Cell Rosettes with Mouse Red Blood Cells	677
<i>J. G. Dolen and B. H. Park</i>	

Anti-Kappa/Lambda Immunobead for Detection of Human B Lymphocytes	691
<i>A. B. Loren, R. L. Hendricks, and M. M. Yokoyama</i>	

Book Reviews	701
--------------------	-----

Announcement	711
--------------------	-----

Author Index to Volume 7	713
--------------------------------	-----

Subject Index to Volume 7	717
---------------------------------	-----

detailing the most recent advances in the field . . .

IMMUNOLOGICALLY MEDIATED RENAL DISEASES

November, 1978
128 pages, illustrated

Criteria for Diagnosis and Treatment

(Immunology Series, Volume 10)*

edited by

ROBERT T. MCCLUSKEY

Massachusetts General Hospital
Harvard Medical School
Boston, Massachusetts

and GIUSEPPE A. ANDRES

State University of New York at
Buffalo, Buffalo General Hospital
Buffalo, New York

This book reviews the most recent concepts concerning the etiology, pathogenesis, diagnosis, and treatment of immunologically mediated human renal diseases. The most notable advances in knowledge of kidney diseases have been made possible by advances concerning their immunologic mechanisms, and this wide-ranging book provides a concise account of the rapid progress which has characterized the evolution of nephrology in the past two decades.

Contributors to this volume have attempted to provide a classification and nomenclature of human glomerulonephritis based on etiologic factors, immunopathogenetic mechanisms, and structural features. Furthermore, current knowledge concerning treatment of renal diseases is reviewed.

With contributions by scientists who have led the way in this field, *Immunologically Mediated Renal Diseases: Criteria for Diagnosis and Treatment* is of prime concern to nephrologists, immunologists, immunopathologists, and clinicians.

Complete tables of contents for previous volumes in the Immunology Series are available from the publisher upon request.

CONTENTS

Introduction, R. T. McCluskey and G. A. Andres. Recognition and Classification of Immunopathogenic Mechanisms, R. T. McCluskey, G. A. Andres, and C. M. Elwood. Immune Complex Disease. Anti-GBM Disease. Glomerulonephritides, G. A. Andres, J. V. Donadio, Jr., C. M. Elwood, R. T. McCluskey, C. L. Pirani, V. E. Pollak, and C. D. West. Proliferative and Exudative Glomerulonephritides (Postinfectious), G. A. Andres and R. T. McCluskey. Systemic Lupus Erythematosus (SLE) Glomerulonephritis (Lupus Nephritis), C. L. Pirani and V. E. Pollak. Anaphylactoid Purpura (Schönlein-Henoch) Glomerulonephritis, C. L. Pirani and C. M. Elwood. IgA-IgG Glomerulonephritis, G. A. Andres and C. M. Elwood. Glomerulonephritis of Polyarteritis, G. A. Andres and R. T. McCluskey. Essential Mixed Cryoglobulinemia Glomerulonephritis, R. T. McCluskey and G. A. Andres. Idiopathic Membranous Glomerulonephritis (IMN), J. V. Donadio, Jr. and G. A. Andres. Membranoproliferative Glomerulonephritis (MPGN), C. D. West.

Rapidly Progressive Glomerulonephritis (RPGN), G. A. Andres, C. M. Elwood, and R. T. McCluskey. Glomerular Diseases Lacking Impressive Evidence of Immunological Mechanisms, K. N. Drummond and G. A. Andres. Idiopathic Nephrotic Syndrome (INS), K. N. Drummond. Some Forms of Sclerosing Glomerulonephritis, G. A. Andres. Immunologically Mediated Tubular and Interstitial (TI) Renal Diseases, G. A. Andres and R. T. McCluskey. Antibody-mediated TI Renal Diseases. Cell-mediated TI Renal Diseases. Therapy. Basic Concepts of Immunosuppressive Treatment of Glomerulonephritis, R. S. Schwartz. Idiopathic Nephrotic Syndrome (INS). Lupus Nephritis. Chronic Glomerulonephritis. Subject Category: 18.4, Immunology ISBN: 0-8247-6779-9

* Immunology is a series of individual volumes under the general editorial direction of Noel Rose, Wayne State University, Detroit, Michigan.

MARCEL DEKKER, INC. 270 MADISON AVENUE, NEW YORK, N.Y. 10016 • (212) 889-9595

coming in January . . . the first comprehensive
reference source . . .

IMMUNODIAGNOSIS OF CANCER

(in two parts)

(Immunology Series, Volume 9)*

edited by

RONALD B. HERBERMAN and

K. ROBERT MCINTIRE

National Cancer Institute
Bethesda, Maryland

January, 1977
720 pages, illustrated

PART I

Immunodiagnosis of Cancer, Parts I and II represent the first comprehensive compilation of immunodiagnostic tests for cancer, both those that are now available and those currently being evaluated for their potential usefulness. This two-part book provides detailed and critical analyses of the various tests and discusses their different aspects, the most recent advances, and the theoretical basis for approaches, current problems, and limitations. The direction of needed studies is suggested in many ways; articles have also been included to aid in the design of appropriate clinical studies, especially the statistical evaluation of diagnostic assays.

The contributors to *Immunodiagnosis of Cancer* are acknowledged experts in their respective specialties, and the editors have stressed the rapid submission of articles, so that these volumes may be as up-to-date as possible. With the publication of this book, tumor immunologists, clinical and surgical oncologists, and biochemists now have a reference to the current status of the field that can be used in the development of immunodiagnostic tests and in the application of these tests to the patient.

CONTENTS (Part I)

Introduction, Ronald B. Herberman and K. Robert McIntire. Approaches and Problems in the Immunodiagnosis of Cancer. *Thomas M. Mack.* Some Statistical Methods for Evaluating Immunodiagnostic Tests, *Mitchell H. Gail.* Development of Radioimmunoassays for Tumor-Associated Antigens, *Paul Franchimont, P. F. Zangerle, J. C. Hendrick, and A. Reuter.* Use of Enzyme Immunoassays, *René Masseyeff.* Use of Immunologic Techniques in Cytology, *Richard A. Malmgren.* **Detection of Circulating Tumor-Associated Markers.** Oncofetal Feto-proteins. Alpha-Fetoprotein. Alpha-Fetoprotein as a Model for Studying Reexpression of Embryonic Antigens in Neoplasia, *G. I. Abelev.* Chemical Properties of Alpha-Fetoprotein, *Erkki Ruoslahti, Eva Engvall, and Michael J. Kessler.* Alpha-Fetoprotein—Use in Screening, *René Masseyeff.* The Use of Sensitive Assays for Alpha-Fetoprotein in Monitoring the Treatment of Malignancy, *Thomas A. Waldmann and K. Robert McIntire.* Carcinoembryonic Antigen. Historical Perspective, Experimental Data, *Phil Gold, Samuel O. Freedman, and Joseph Shuster.* The Chemistry of Carcinoembryonic Antigen, *David G. Pritchard and Charles W. Todd.* Speciation of Carcinoembryonic Antigen

and its Immunodiagnostic Implications, *Edward F. Plow and Thomas S. Edgington.* Carcinoembryonic Antigen in Prognosis and Monitoring of Patients with Cancer, *Gustavo Reynoso and Margaret Keane.* Carcinoembryonic Antigen: Use in Screening, *Ian R. Mackay.* Tumor Detection and Localization with Purified Antibodies to Carcinoembryonic Antigen, *David M. Goldenberg, F. James Primus, and Frank DeLand.* Carcinoembryonic Antigen in Gastrointestinal Secretions, *Marianne L. Egan and Vay Liang W. Go.* Antigens Cross-reacting with CEA, *Sabine von Kleist and Pierre Burtin.* Fetal Sulfoglycoprotein Antigen, *Ilkka Häkkinen.* Pancreatic Oncofetal Antigen, *F. Gelder, C. Reese, A. R. Moossa, and R. Hunter.* Ectopic Hormones. Human Chorionic Gonadotropin. Human Chorionic Gonadotropin: Chemical and Biologic Characterization, *Judith L. Vaitukaitis.* Use of Human Chorionic Gonadotropin as a Tumor Marker in Cancer, *Glenn D. Braunstein.* Parathyroid Hormone and Calcitonin, *Hunter Heath III and Claude D. Arnaud.* Placental Lactogen, *Saul W. Rosen and B. D. Weintraub.* Enzymes. Placental Alkaline Phosphatase, *William H. Fishman and Leo L. Stoltbach.* Serum Proteins. Immunoglobulins in Diagnosis and Monitoring of Neoplasia, *Daniel E.*

Bergsagel and Waldemar Pruzanski. Ferritin, *Donald M. Marcus, Nira Zinberg, and Irving Listowsky.* Kappa Casein: An Index of Normal Mammary Function and a Tumor-Associated Antigen, *P. Franchimont, J. C. Hendrick, A. Thirion, and P. F. Zangerle.* Tissue Polypeptide Antigen, *Douglas Holyoke and T. Ming Chu.* Use of Multiple Immunoassays for Circulating Tumor Markers, *K. Robert McIntire.* **Detection of Tumor-Associated and Other Antigens on Tumor Cells.** Immunodiagnosis of Leukemia, *Melvyn F. Greaves.* Serological Detection of Human Melanoma-Associated Antigen, *Soldan Ferrone and Michele A. Pellegrino.* Ovarian Cancer, *Malaya Bhattacharya and Joseph J. Barlow.* The Loss of Blood Group Antigens A, B, and H from Cancer Cells, *Israel Davidsohn.* HLA and Blood Group Antigens, *G. Nicholas Rogentine, Jr.* Primary Intracranial Tumors, *Nelson L. Levy.* Other Antigenic Tumor Markers, *Jacques Bara and Pierre Burtin.* Subject Category: 18.4. ISBN: 0-8247-6738-3

Immunology

* Immunology is a series of individual volumes under the general editorial direction of Noel Rose, Wayne State University, Detroit, Michigan.

INSTRUCTIONS FOR PREPARATION OF MANUSCRIPTS FOR DIRECT REPRODUCTION

IMMUNOLOGICAL COMMUNICATIONS is a bi-monthly journal in the English language for the rapid communication of immunological information.

Directions for Submission to IMMUNOLOGICAL COMMUNICATIONS

One manuscript suitable for direct reproduction (see Instructions for Preparation), carefully inserted in a folder, and two copies of the manuscript must be submitted.

Reprints

Owing to the short production time for articles in this journal it is essential to indicate the number of reprints required upon notification of acceptance of the manuscript. Reprints are available in quantities of 100 and multiples thereof, in addition to the twenty (20) free copies provided to the senior author with orders of 100 or more reprints; a reprint price list will be sent to the senior author with the notification of acceptance of the manuscript.

Manuscripts should be mailed to:

Editorial Office, The Center for Immunology
203 Sherman Hall, School of Medicine
State University of New York at Buffalo
Buffalo, New York 14214

INSTRUCTIONS FOR THE PREPARATION OF MANUSCRIPTS

Since all the contributions are reproduced by direct photography of the manuscripts, the following instructions must be strictly adhered to. Non-compliance will result in the return of the manuscript to the author(s) and delay in its publication.

Typing Instructions

1. Manuscript must be typewritten, double spaced, on good quality white bond paper measuring at least 8½ x 11 inches.
2. It is essential to use a black typewriter ribbon in good condition so that a clean and clear impression of the letters is obtained. Erasure marks, smudges, creases, etc., should be avoided. (Errors may be corrected by using white opaque correcting fluids or tapes).
3. All formulas and equations should be typed in or carefully prepared in permanent black ink, using drawing instruments.
4. The typing area of page 1, including the title, should be 6½ by 8½ inches and that of all other pages 6¼ x 9½ inches. Make maximum use of the typing area.
5. Tables should be typed as part of the text but in such a way as to separate them from the text by a three-line space at both top and bottom of each table. The title "TABLE" (capitalized and followed by a Roman number) should precede the table and be centered on the page. Care should be taken that a table does not overlap onto the next page.
6. Drawings, graphs and other numbered figures should be drawn in black India ink (do not use blue ink) on a separate piece of white paper. Photographs should be glossy prints. Lettering set should be used for all labels on the figures or photographs; a typewriter may be used for labels. Captions for the figures should be

typed (single spaced) on a separate sheet, along the full width of the type page. The indication "FIGURE" should be capitalized and, with the figure's number (in Arabic numerals), centered above the caption. The numbers of the figures or photographs as well as the name(s) of the author(s) should be written in blue pencil on the back; the top of the picture should also be indicated on the back. The author(s) should indicate (with a blue pencil) the places in the text where the picture(s) should be inserted.

7. References (including footnotes) in the text will be numbered consecutively by numbers in parentheses. The full references (and footnotes) will be collected at the end of the text. The last names of all authors to any one paper, followed by their initials, shall be quoted. The title of the journal (Chemical Abstracts abbreviations), the volume number (underlined), the first page and the year should follow, in that order. Books should be cited similarly and include the publisher's name and location along with the year and edition of the book. Articles or chapters in books should be cited similarly and include the name of the editor(s) of the book and the page on which the article begins, as well as the volume number.

(journal): Thrasher, S. G., Doroszczak, N. and Cohen, S., J. Immun., 107:1394, 1971.

(book): Pressman, D. and Grossberg, A. L., The Structural Basis of Antibody Specificity, W. A. Benjamin, Inc., New York, 1968.

(article in a book): Milgrom, F., in International Convocation on Immunology, edited by N. R. Rose and F. Milgrom, p. 270, S. Karger, New York, 1969.

Format of Manuscripts

1. The entire title should be in capital letters and centered on the width of the typing area, at least two inches from the top of the page. This is followed by a one-line space and then by the name(s) and address(es) of the author(s), in the following way:

AUTOIMMUNE RESPONSES TO THYROGLOBULIN IN THE RAT

T. J. Atkins and H. Z. Ginsberg
Departments of Microbiology and Pathology,
School of Medicine, State University of New York
at Buffalo, Buffalo, New York 14214

2. The title and the name and address of the author(s) are followed, after a three-line space, by an abstract, comprising less than 10% of the length of the text of the article. The abstract must be typed single-spaced and headed "Abstract".
3. After a three-line space, the article itself commences, whenever possible subdivided into sections such as "Materials and Methods," "Results," "Discussion," "Acknowledgments" and "References." The headings should be centered, underlined, and separated by one extra line space from the typed material that precedes and follows it.
4. Each page of manuscript should be numbered lightly at the bottom of the sheet, with a blue pencil.

IMMUNOLOGICAL COMMUNICATIONS

Volume 7, Number 6, 1978

CONTENTS

Fc Receptor-Bearing Lymphoid Cells in the Chicken. I. Characterization of the Fc(IgG) Receptor	601
<i>J. S. Nowak, M. K. Morrison, L. D. Bacon, and N. R. Rose</i>	
Fc Receptor-Bearing Lymphoid Cells in the Chicken. II. Relative Increase of Fc(IgG) Receptor Bearing Cells in Obese Strain Chickens	621
<i>J. S. Nowak, L. D. Bacon, and N. R. Rose</i>	
Liposomes in Immunology: Further Evidence for the Adjuvant Activity of Liposomes	635
<i>N. van Rooijen and R. van Nieuwmegen</i>	
The Decay of Memory of Cell-Mediated Cytotoxicity after Primary Sensitization <i>in Vivo</i> against a Tumor Allograft	645
<i>K. H. Jones and W. H. Adler</i>	
Pigeon IgA: A Major Antigen in Pigeon Breeder's Disease	661
<i>J. Goudswaard, A. Noordzij, and J. W. E. Stam</i>	
Influence of Intermittent Hyperglycemic Glucose Levels on the Phagocytosis of Microorganisms by Human Granulocytes <i>in Vitro</i>	669
<i>C. J. van Oss and J. R. Border</i>	
An Improved Micro-Method for Enumeration of Human B-Cell Rosettes with Mouse Red Blood Cells	677
<i>J. G. Dolen and B. H. Park</i>	
Anti-Kappa/Lambda Immunobead for Detection of Human B Lymphocytes	691
<i>A. B. Loren, R. L. Hendricks, and M. M. Yokoyama</i>	
Book Reviews	701
Announcement	711
Author Index to Volume 7	713
Subject Index to Volume 7	717
Collective Contents to Volume 7	727

MARCEL DEKKER, INC. New York and Basel

Contributions to this journal are published free of charge